

Water District #34  
P.O. Box 53  
Mackay, ID 83251

RECEIVED  
OCT 12 2012  
DEPARTMENT OF  
WATER RESOURCES

October 10, 2012

RE: Compliance with Water District #34 Water Distribution Rules /  
Water Master's description of calculating the natural flow, demand and  
delivery's of natural flow.

Attn: Nick Miller

**Decree Call**

- 1) Add total water in system, from river, creeks, wells & rising water. Calculate 4 day average for both 2B & Reservoir inflow to determine if total of water is increasing or decreasing.
- 2) Add all the headings, Total head delivered includes all water delivered past head gate.
- 3) Divide total water by total head, which equals shrink.
- 4) total water multiplied by shrink % determines deliverable decree water after accounting for storage water at 2B (storage water at 2B equals storage water delivered multiplied by shrink % and added to storage water delivered, subtract storage at 2B from 2B + Sharp which equals water used for decree at 2B) subtract water used for decree at 2B from Reservoir inflow which equals water used for decree that was storage water or the amount of decree water used for storage. Either one or the other will occur because of variable inflow from Reservoir or antelope Creek etc... Decree calls are changed if either case consistently occurs.

This water is used to fill all calls for water made by users to district 34 for their decree that is currently on by priority.

Decree calls are also affected by temperature, precipitation, wind, humidity, specific crops and their stage of development.

5) Natural flow water is not and can not be directly measured in the Big Lost River, Because a significant amount of "Natural Flow" water is from rising water between the Dam gates and the 2B gage, a small portion of which is seepage. Today there was 3.92 CFS from seepage. 127 CFS gain past Reservoirs gate leaving 110 CFS of rising water going past the 2b .

So natural flow is not directly measured anywhere in the system, but is inferred by subtracting the increase or decrease in reservoir contents from the amount of water flowing past the 2B. When the gates are closed on October 16, 2012 for the season I expect more than 110 CFS will still flow past the 2B.

Surface water stopped flowing at the Chilly Bridge August 4, 2012, Since that time the inflow has been between 190-230 CFS. This inflow varies even though no sprinkling has occurred since October 3, 2012 out of Warm Springs.

### **Demand**

6) Water users tell District 34 they want deliveries of their decree water, that water is put in each respective canal head. When priority changes users are informed and canal heads are adjusted accordingly.

7) Included are examples of River shrink calculations and Reservoir charts that since July shows storage water delivered and amount of water estimated to be going thru the gates.

I think the process is more art than science therefore many questions will be asked. Feel free to do so.

Sincerely,

  
Water Master #34

Roger Totten

9/30 Shrub

	Monday	Tuesday	Wednesday	Thur	Fri	Sat	Sunday	week total inches	Weekly CFS total
Sharp	9.6	9.6	9.6	7.1	4.68	4.68	4.68	39.6	0.9844
2B Gauge	309	301	292	243	227	231	235	1838	36.76
Outflow	318.6	310.6	301.6	250.1	231.68	235.68	238.96	1887.22	37.7444

Darlington'	20	16	16	16	12	12	11	103	2.06
Sharp	9.6	9.6	9.6	7.1	4.68	4.68	3.96	49.22	0.9844
Swauger	12.2	12.2	12.2	8.44	8.44	8.44	8.52	70.44	1.4088
Burnett	25	25	25	24	20	18	18	155	3.1
H&V								0	0
total burnett reach	66.8	62.8	62.8	55.54	45.12	43.12	41.48	377.66	7.5532

Beck	5.92	1.2	1.2	1.5	1.42	1.42	1.42	14.08	0.2816
Angelo	0	0	0	0	0	0	0	0	0
Pehrson	1.38	1.38	1.38	0	0	0	0	4.14	0.0828
Sutter	0	0	0	0	0	0	0	0	0
3in1	0	0	0	0	0	0	0	0	0
Lower Burnett	0	0	0	0	0	0	0	0	0
B&J	0	0	0	0	0	0	0	0	0
Total leslie reach	7.3	2.58	2.58	1.5	1.42	1.42	1.42	18.22	0.3644

	206	204	190	157	148	148	150	
Leslie gauge	206	204	190	157	148	148	150	
Moore	84	86	84	82	77	73	75	0
Eastside canal	35	35	35	16	9	11	9	0
Eastside deliveries	119	121	119	98	86	84	84	711
	11.34	12.34	11.34	5.38	4.74	5.18	4.74	14.22

Arco to be used in reach	4	4	10.2	8.64	4.38	0	0	31.22	0.6244
Munsey	12.66	10.1	10.1	0	7.98	2.42	2.42	45.68	0.9136
	16.66	14.1	20.3	8.64	12.36	2.42	2.42	76.9	1.538

ARCO GAUGE									
Total all headings	193.1	186.38	184.38	155.04	132.54	128.54	126.9	1106.88	0
total deliveries/outflow=	0.606089	0.600064	0.61134	0.619912	0.572082	0.545401	0.531051	0.58651	913.78

Well Input 7.26 7.26 7.26 6.8 6.8 9.98 9.98 9.98

5924 .5864 .597 .604 .556 .523 .57

40.7% 41.4% 40.3% 39.6% 44.4% 47.7% 48%

Shrub

9/10

9/16

	Monday	Tuesday	Wednesday	Thursday	Fri	Sat	Sunday	week total inches	Weekly CFS total
Sharp	5.04	8.54	8.54	8.54	8.54	8.54	8.54	56.28	1.1256
2B Gauge	309	309	296	305	301	305	305	2130	42.6
Outflow	314.04	317.54	304.54	313.54	309.54	313.54	313.54	2186.28	43.7256

Darlington'									
Sharp	22	18	18	18	17	21	21	135	2.7
Swauger	5.04	8.54	8.54	8.54	8.54	8.54	8.54	56.28	1.1256
Burnett	1.8	1.8	1.8	1.8	10.84	10.84	10.84	39.72	0.7944
H&V	30	30	30	30	30	30	30	210	4.2
total burnett reach	58.84	58.34	58.34	58.34	66.38	70.38	70.38	441	8.82

Beck	7.82	7.82	7.82	7.82	7.82	7.82	7.82	54.74	1.0948
Angelo	0	0	0	0	0	0	0	0	0
Pehrson	1.94	1.94	1.94	1.94	1.94	1.94	1.94	13.58	0.2716
Sutter	0	0	0	0	0	0	0	0	0
3in1	0	0	0	0	0	0	0	0	0
Lower Burnett	0	0	0	0	0	0	0	0	0
B&J	0	0	0	0	0	0	0	0	0
Total leslie reach	9.76	9.76	9.76	9.76	9.76	9.76	9.76	68.32	1.3664

Leslie gauge	212	213	216	213	205	196	196		
Moore	69	69	73	70	70	68	70		0
Eastside canal	44	44	44	44	44	40	34		0
Eastside deliveries	113	113	117	114	114	108	104	783	15.66
	22.48	22.48	24.08	23.48	23.48	23.48	8.1		

Arco to be used in reach	4.5	10	10	10.3	10.3	10.3	10.3	65.7	1.314
Munsey	30	34.1	32	22	22	22	26	188.1	3.762
	34.5	44.1	42	32.3	32.3	32.3	36.3	253.8	5.076
ARCO GAUGE									
Total all headings	181.6	181.1	185.1	182.1	190.14	188.14	184.14	1292.32	0
total deliveries/outflow=	0.57827	0.570322	0.607802	0.580787	0.614266	0.600051	0.587293	0.5911	

Well Input	36.84	36.84	36.84	19.64	19.64	14.72	14.72	1110.72	
9-10-2012 Shrub	1.578	1.571	1.542	1.547	1.578	1.573	1.561		
	48.2%	48.9%	45.8%	45.3%	42.2%	42.7%	43.9%		

Date: 7/30/2012 Decree Call 10-12-1884

RESERVIOR  
Last 4 Days

AF	33580
AF	33130
AF	32700
AF	52730

INFLOW

2-B	470	CFS
SHARP	4	CFS
ANTELOPE		CFS
ALDER CREEK		CFS
WELLS	30.4	CFS

581.4 IN

2-B

459
470
470
470

#DIV/0! 477 = 4 Day Average  
19084 =

HEADINGS	CFS
EASTSIDE	94
MOORE	94
ARCO	
DARLINGTON	42
BECK	12.6
SHARP	4
SWAUGER	18
ANGELO	192
PEHRSON	318
MCLAUHLIN	
SUTTER	0
MUNSEY	
BURNETT	49
3IN1	0
B&J	0
LAMBERT	
MILLER	
LOWER BURNETT	299

HEADINGS

Harris & Vaught	
Stub	
UC	
3IN1	
B&J	
MILLER	
SPRING CREEK	
SUTTER	
LESLIE PIT	

Inflow Reservoir

263
253
254
237

#DIV/0!  
10074 = 4 Day Average

Available from Recharge

320.64
501.4

#DIV/0!  
6394 =

124 CFS Storage used 729  
X.34  
44.64  
+124  
168.64 STORAGE AT 2B

320.64 OUT

10-2-1885 = 215.629 CFS  
10-12-1884 = 141.753

ARCO GAGE

OUT

OR Farmers turning  
sites because grain  
isn't, weather will  
rain to cool n 80 F. Ave  
demand should decrease

2B = 470  
- 108.64 Storage at 2B  
301.34 CFS at 2B used for decree wats  
- 237 Inflow available for decree  
64.36 CFS Storage wats used for decree

10-2-1885 = 215.629  
- 74  
10/12/1844-141.753



Date: 9/13/2012

Decree Call 10-12-1884

RESERVIOR  
Last 4 Days

AF	19530
AF	19320
AF	19100
AF	18840

INFLOW	296	CFS
2-B SHARP	854	CFS
ANTELOPE		CFS
ALDER CREEK		CFS
WELLS	4438	CFS
	0348.92IN	

2-B	305
	309
	309
	296

#DIV/0!  
= 4 Day Average  
12184 306.75

Loss of 600 AF / 4 = 150 AF/day  
= 83.75 CFS/day

HEADINGS

EASTSIDE	44
MOORE	73
ARCO	10
DARLINGTON	18
BECK	282
SHARP	854
SWAUGER	118
ANGELO	144
PEHRSON	32
MCLAUHLIN	30
SUTTER	
MUNSEY	
BURNETT	
3IN1	
B&J	
LAMBERT	
MILLER	
LOWER BURNETT	
	0

HEADINGS

Harris & Vaught	
Stub	
UC	
3IN1	
B&J	
MILLER	
SPRING CREEK	
SUTTER	
LESLIE PIT	
	0

Inflow Reservoir

	205
	204
	204
	184

#DIV/0!  
= 4 Day Average  
804/4 = 200.5

Essex Delivery 24.08

Arco 10

Munsey 32

Kyle 66.08

Stem 68.1

Dean 73  
207.18

Available from Recharge

207.10	Out
345.42	IN

#DIV/0!  
= .594 = 40.6 % SHRINK

Deliveries 9/6 = 231.32

Deliveries 9/13 = 207.18

24.14 less deliveries  
No increase decre.

NOTES:

\* 3.5 CFS Ro Total

\* Weather Average Tempos.

9-14-1884 = 115,461

+ 24.14 decrease in demand

139.6 = 10-12-1884

ARCO GAGE -207.10 OUT

Storage 71.74 delivered

X 40.6% Shrink

29.1

+ 71

100.1 Storage at 2-B

6 Evaporation

106.1 Water Reservoir Loss



Date: 10/1/2012

Decree Call 5-31-1885

RESERVIOR  
Last 4 Days

AF	15980
AF	15960
AF	15940
AF	15910

2-B	233	CFS
SHARP	4	CFS
ANTELOPE		CFS
ALDER CREEK		CFS
WELLS	9.98	CFS
	0	IN

2-B	243
	227
	220
	233

#DIV/0!  
930/4 = 232.5  
= 4 Day Average

HEADINGS

EASTSIDE	12
MOORE	22
ARCO	
DARLINGTON	11
BECK	1.42
SHARP	4
SWAUGER	8.52
ANGELO	
PEHRSON	
MCLAUHLLIN	
SUTTER	
MUNSEY	
BURNETT	18
3IN1	
B&J	
LAMBERT	
MILLER	
LOWER BURNETT	

HEADINGS	CFS
Harris & Vaught	
Stub	
UC	
3IN1	
B&J	
MILLER	
SPRING CREEK	
SUTTER	
LESLIE PIT	

Inflow Reservoir	
	712
	224
	224
	225

#DIV/0!  
885/4 = 221.25  
= 4 Day Average

Available from Recharge

Out	126.94
IN	246.98
#DIV/0!	7.51

49 % SHRINK

NOTES:

126.94 Total Delivered

36 CFS delivered Storage

90.94 delivered from water

237 CFS inflow

49% shrinks

116.237 = inflow for decre

121 inflow after shrink (bever)

90.94 decree delivered

30.04 decree used for storage deliveries

10-18-84 decree 141.75

730.06

\* 2...

Weather - warmer than normal followed by colder than normal, 1-4 miles shuttling down migration for season.

5-31-1885 decree

2012	Res. gauge	Res. A. F.	Res. Percent full	Res. Gain or lose A.F.	Res. Gain or loss CFS	2B Gauge	Sharp CFS	Release CFS	Inflow CFS	Howell CFS	Leslie CFS	Dam CFS	Seep Inchs	Spill way	adjust	decree	Arco	Thru Gates	gate setting
April	1	65.11	42480	96.88	100	50	2	120	170	792	104						72		
	2	65.35	42810	97.63	330	166	2	120	286	237	98.6		775				70		
	3	65.51	43020	98.11	210	106	4	122	228	175	98.1						64		
	4	65.64	43200	98.52	180	91	4	122	213	196	99.2						60		
	5	65.73	43320	98.79	120	60	4	122	182	178	98.4						56		
	6	65.8	43420	99.02	100	50	4	139	189	160	104						55		
	7	65.83	43460	99.11	40	20	4	125	145	125	99.8						65		
	8	65.88	43520	99.25	60	30	4	128	158	125	97						56		
	9	65.91	43560	99.34	40	20	4	133	153	154	101		825	spil 0.15			50		
	10	65.94	43610	99.45	50	25	4	133	158	187	105			spil 0..22			45		
	11	65.99	43680	99.61	70	35	4	136	171	275	109						45		
	12	66.03	43730	99.73	50	25	4	150	175	259	117						55		
	13	66.08	43790	99.86	60	30	4	155	185	237	124			spil 0.35			58		
	14	66.14	43880	100.07	90	45	4	164	209	234	132						62		
	15	66.16	43900	100.11	20	10	4	171	181	215	139						64		
	16	66.17	43920	100.16	20	10	4	171	181	213	141						73		
	17	66.2	43960	100.25	40	20	4	174	194	216	145		880	spil-0.42			70		
	18	66.22	43990	100.32	30	15	4	184	199	248	152						69		
	19	66.21	43970	100.27	-20	-10	4	177	167	255	156			spil-0.45			73		
	20	66.24	44020	100.39	50	25	4	184	209	263	159						73		
	21	66.26	44040	100.43	20	10	4	184	194	382	163						75		
	22	66.32	44130	100.64	90	45	4	195	240	511	172			spil-0.54			73		
	23	66.41	44240	100.89	110	55	4	231	286	650	207	-87	880	sw-0.6 OP#2-8clk			70		
	24	66.48	44340	101.12	100	50	8	326	327	904	327	-105		sw-0.65 OP#2-10c			84		
	25	66.49	44360	101.16	20	10	8	431	441	1070	436	0		sw-0.65			86		
	26	66.6	44500	101.48	140	71	8	421	492	1500	571	-300		sw-0.76 OP#2-52cl			90		
	27	66.58	44470	101.41	-30	-15	8	807	792	2680	1050	-223		sw-0.70 OP#2,4,5	32 clk		96		
	28	66.51	44380	101.21	-90	-45	9	1029	984	1400	1380			sw-0.65			211		
	29	66.03	43730	99.73	-650	-328	9	894	566	959	1040	536		sw-0.35 cls#4.2	87clk		292		
	30	66.38	44200	100.80	470	237	9	358	595	821	449	-126	855	sw-7 op#2 14clk	adjust	decree	204		gate

MAY	gauge	A. F.	full	or lose A.F.	or loss CFS	Gauge	CFS	CFS	CFS	CFS	CFS	CFS	CFS	Inchs	sw-.075	Gates	setting	
1	66.54	44420	101.30	220	111	475	9	484	595	729	597			sw-.075	all	80		
2	66.49	44360	101.16	-60	-30	460	9	469	439	649	546	70		sw-.075 cl#210clk		80		
3	66.44	44290	101.00	-70	-35	395	9	404	369	587	430	60		sw-0.62 cl#2.5 9clk		44		
4	66.55	44430	101.32	140	71	349	5	354	425	545	390			sw-0.7		15		
5	66.54	44420	101.30	-10	-5	358	5	363	358	500	418			sw-0.7		8		
6	66.49	44360	101.16	-60	-30	345	5	350	320	457	376	49		sw-0.65 cl#5 5clk		7.8	50 5#5	
7	66.5	44370	101.19	10	5	296	5	301	306	431	307		880	sw-0.65	all	5.1		
8	66.49	44360	101.16	-10	-5	292	5	297	292	452	272			sw-0.65	1905	1.7		
9	66.47	44330	101.09	-30	-15	288	5	293	278	557	223			sw-0.62	6/1/1888	0.29		
10	66.49	44360	101.16	30	15	301	5	306	321	799	244	-25		sw-.062 op#2 3clk	1/1/1892	0.07	75 5#5/3#2	
11	66.56	44450	101.37	90	45	345	5	350	395	866	347	-106		sw-0.7 op#2 21clk	30% 6/1/1896		131 5#5/24#2	
12	66.47	44330	101.09	-120	-60	451	5	456	396	843	439	42		sw-0.7 cl#2 10clk			92 5#5/14#2	
13	66.5	44370	101.19	40	20	409	10	419	439	888	412	-46		sw-7 op#2 11clk	all	4	138 5#5/26#2	
14	66.48	44340	101.12	-30	-15	455	10	465	450	1030	460		880	sw-0.65	all	4		
15	66.41	44240	100.89	-100	-50	591	10	601	551	1250	462			sw-0.65	recalibrate 2B, res. Howell			
16	66.54	44420	101.30	180	91	634	10	644	735	1300	571	-136		sw-.075 op#2 25cl	all	6	274 5#5/51#2	
17	66.46	44310	101.05	-110	-55	770	10	780	725	1390	666			sw-0.7	all	14		
18	66.51	44380	101.21	70	35	787	10	797	832	1180	682			sw-0.75	all	16	71 5#5/16#2	
19	66.41	44240	100.89	-140	-71	758	10	768	697	1020	573	168		sw-0.65 cl#2 35clk	all	12	187 5#5/36#2	
20	66.6	44500	101.48	260	131	591	9	600	731	959	481	-116		sw-0.8 op#2 20clk	pb-66.59	6.2	165 5#5/30#2	
21	66.51	44380	101.21	-120	-60	678	10	688	628	992	551	22	940	sw-0.75 cl#2 6clk	all	1.9	244 5#5/42#2	
22	66.51	44380	101.21	0	0	656	10	666	666	1320	534	79		sw-0.75 op#2 12cl	all	2.2		
23	66.54	44420	101.30	40	20	735	10	745	765	1080	639			sw-0.75	all	11	205 5#5/36#2	
24	66.49	44360	101.16	-60	-30	723	10	733	703	888	623			sw-0.7	all	14		
25	66.39	44220	100.84	-140	-71	695	10	705	634	763	587	39		sw-0.6 cl#2 6clk	all	62		
26	66.36	44180	100.75	-40	-20	656	10	666	646	668	553			sw-0.55	all	67	50 5#5/0#2	
27	66.35	44160	100.71	-20	-10	667	10	677	667	617	563			sw-0.5	all	38	137 5#5/10#2	
28	66.22	43970	100.27	-190	-96	623	10	633	537	540	422	191	880	sw-0.45 cl#2 36cl	all	16		
29	66.46	44310	101.05	340	171	432	10	442	613	545	270	-87		sw-0.7 op#2 10clk	all			
30	66.47	44330	101.09	20	10	519	10	529	539	569	333			sw-0.7	all			
31	66.42	44260	100.94	-70	-35	504	10	514	479	649	323			sw-0.65	8/21/1954	9.8		
2012	Res.	Res.	Percent	Res. Gain	Res. Gain	2B	Sharp	Release	Inflow	Howell	Leslie	Dam	Seep	Spill way	adjust	Arco	Thru	gate

2012	Res. gauge	Res. A. F.	Res. Percent	Res. Gain or lose A.F.	Res. Gain or loss CFS	2B Gauge	Sharp CFS	Release CFS	Inflow CFS	Howell CFS	Leslie CFS	Dam CFS	Seep Inchs	Spill way	adjust	decree	Arco	Thru Gates	gate setting
JUNE	66.42	44260	100.94	0	0	504	10	514	514	919	339	-71		sw-0.7	op#2 10clk	pb-66.46	5.1	208	21#5-20#2
1	66.45	44300	101.03	40	20	575	10	585	605	1280	438	-92		sw-0.7	op#2 15clk		4.6	295	5#5/35#2
2	66.55	44470	101.41	170	86	689	10	699	785	1680	719	-361		sw-0.8	op#2.4 50cl	all	12	645	5#5/75#2/10#4
3	66.36	44180	100.75	-290	-146	1020	10	1030	884	1860	974	92	880	sw-0.6	cl#2 20clk	all	6.5	505	5#5/55#2/10#4
4	66.61	44510	101.51	330	166	928	10	938	1104	2060	1040	-392		sw-0.85	op#2.4 5 44	all	66	815	21#5/75#2/20#4
5	66.49	44360	101.16	-150	-76	1320	10	1330	1254	1260	1380			sw-0.75		all	86		
5:15	66.32	44130	100.64	-230	-116	1280	10	1290	1174			352		cl#2-45clk				500	21#5/30#2/20#4
7	66.3	44100	100.57	-30	-15	928	10	938	923	888	805	260		sw-0.6	cl#4.2 40cl	all	158	240	21#5/10#2
8	66.48	44340	101.12	240	121	667	11	678	799	735	553			sw-0.7		all	55		
9	66.48	44340	101.12	0	0	667	11	678	678	682	557			sw-0.7		all	22		
10	66.46	44310	101.05	-30	-15	667	11	678	663	624	546			sw-0.7		all	18		
11	66.36	44180	100.75	-130	-66	634	9	643	577	563	469	93	910	sw-0.6	cl#2.5-14cl	10/28/1942	14	170	17#5
12	66.39	44220	100.84	40	20	541	9	550	570	569	384	-26		sw-0.7	op#2 3clk		7.8	196	17#5.3#2
13	66.35	44160	100.71	-60	-30	565	9	574	544	599	395			sw-0.6			8.7		
14	66.31	44110	100.59	-50	-25	524	9	533	508	742	419	-22		sw-0.55	op#2 2clk	10/28/1942	6.2	218	17#5.5#2
15	66.34	44150	100.68	40	20	544	11	555	575	806	440	-16		sw-0.6	op#2-3clk		6.5	234	17#5.8#2
16	66.33	44140	100.66	-10	-5	560	11	571	566	792	454			sw-0.6			6.5		
17	66.32	44130	100.64	-10	-5	560	11	571	566	873	459			sw-0.6			3.6		
18	66.36	44180	100.75	50	25	565	11	576	601	1020	507	-63	940	sw-0.6	op#2-11clk	all	2.5	297	17#5.19#2
19	66.32	44130	100.64	-50	-25	628	11	639	614	799	567	26		sw-0.6	cl#2-3clk		4.6	271	17#5.16#2
20	66.29	44090	100.55	-40	-20	602	11	613	593	695	520			sw-0.55			2.2		
21	66.19	43950	100.23	-140	-71	580	11	591	520	662	468	41		sw-0.5	cl#2-6clk	10/28/1942	5.8	230	17#5.10#2
22	66.14	43880	100.07	-70	-35	539	11	550	515	722	419			sw-0.5			5.1		
23	66.14	43880	100.07	0	0	539	11	550	550	828	422	-15		sw-0.5	op#2-2clk	pb 66.16	0.05	245	17#5.12#2
24	66.14	43880	100.07	0	0	554	11	565	565	799	438			sw-0.5		5/1/1904	2.8		
25	66.13	43860	100.02	-20	-10	554	11	565	555	836	440		940	sw-0.5					
26	66.14	43880	100.07	20	10	554	11	565	575	792	452	-16		sw-0.5	op#2-4clk	pb 66.17	1.2	261	17#5.16#2
27	66.06	43770	99.82	-110	-55	570	11	581	526	636	439	23		sw-0.3	cl#2-1clk		0.05		17#5.15#2
28	65.95	43620	99.48	-150	-76	544	14	558	482	605	421	-10		sw-0.15		1/1/1899	0.59		17#5.19#2
29	65.77	43380	98.93	-240	-121	554	14	568	447	636	440	-16		sw-0	wind op#2-3cl		0.02		17#5.22#2
30	65.58	43120	98.34	-260	-131	570	14	584	453	624	454			sw-0		6/1/1895	0.04		
2012	Res.	Res.	Percent	Res. Gain	Res. Gain	2B	Sharp	Release	Inflow	Howell	Leslie	Dam	Seep	Storage	adjust	decree	Arco	Thru	gate

2012	Res. gauge	Res. A. F.	Percent full	Res. Gain or lose A.F.	Res. Gain or loss CFS	2B Gauge	Sharp CFS	Release CFS	Inflow CFS	Howell CFS	Leslie CFS	Dam CFS	Seep Inchs	Storage headings	Storage adjust	decrease	Arco	Thru Gates	gate setting	
JULY	1	65.39	42870	97.77	-250	-126	565	14	579	453	624	440	38	910	cl#2-6clk	0	0	223	17#5,16#2	
	2	65.28	42710	97.40	-160	-81	529	12	541	460	617	435	-10		op#2-2clk			213	17#5,18#2	
	3	64.14	42530	96.99	-180	-91	539	12	551	460	611	461	-10		op#2-2clk			223	17#5,20#2	
	4	64.96	42280	96.42	-250	-126	549	12	561	435	611	479	-26		op#2-4clk			249	17#5,24#2	
	5	64.74	41990	95.76	-290	-146	575	12	587	441	551	507				3/23/1893				
	6	64.51	41680	95.05	-310	-156	575	12	587	431	551	504	21		cl#2-2clk				17#5,22#2	
	7	64.29	41390	94.39	-290	-146	554	12	566	420	517	491	29		cl#2-3clk				17#5,19#2	
	8	64.06	41080	93.68	-310	-156	539	8	547	391	517	483								
	9	63.82	40770	92.98	-310	-156	539	8	547	391	517	497	-36		op#2-7clk	5/10/1889			17#5,26#2	
	10	62.5	40350	92.02	-420	-212	575	8	583	371	506	520								
	11	63.16	39900	90.99	-450	-227	575	8	583	356	478	519								
	12	62.82	39460	89.99	-440	-222	575	9	584	362	457	513								
	13	62.45	38980	88.89	-480	-242	560	9	569	327	441	520	-15		op#2-2clk	6/1/1887				
	14	62.08	38500	87.80	-480	-242	575	9	584	342	468	536							17#5,28#2	
	15	61.75	38110	86.91	-390	-197	575	9	584	387	617	532								
	16	61.45	37700	85.97	-410	-207	575	9	584	377	468	532	21		cl#2-3clk	6/1/1887			17#5,25#2	
	17	61.17	37350	85.18	-350	-176	554	9	563	387	431	389	15		cl#2-2clk				17#5,23#2	
	18	60.85	36950	84.26	-400	-202	539	9	548	346	397	357	57		cl#2-9clk				17#5,14#2	
	19	60.59	36630	83.53	-320	-161	489	2	491	330	364	293	19		cl#2-3clk	3/2/1887		236	17#5,11#2	
	20	60.33	36310	82.81	-320	-161	470	2	472	311	271	273	-14		op#2-2clk	5/1/1886			17#5,13#2	
	21	60.04	35950	81.98	-360	-181	484	2	486	305	271	273	-12		op#2-2clk				17#5,15#2	
	22	59.68	35510	80.98	-440	-222	489	4	493	271	255	275	-10		op#2-2.5clk				17#5,17.5#	
	23	59.29	35040	79.91	-470	-237	499	4	503	266	255	282	-5		op#2-.5clk	10/2/1885			17#5,18#2	
	24	58.89	34550	78.79	-490	-247	504	4	508	261	244	285								
	25	58.46	34030	77.61	-520	-262	504	4	508	246	230	283	20		cl#2-3clk		0.2		17#5,15#2	
	26	58.08	33580	76.58	-450	-227	489	1	490	263	223	272	10		cl#2-1.5clk		8.7	251	17#5,13.5#	
	27	57.7	33130	75.55	-450	-227	479	1	480	253	209	258	9		cl#21clk		5.1		17#5,12.5#	
	28	57.33	32700	74.57	-430	-217	470	1	471	254	209	246	-3		op#2-0.5		0.59		17#5,13#2	
	29	56.93	32230	73.50	-470	-237	470	4	474	237	196	242					0.2			
	30	56.53	31760	72.43	-470	-237	465	4	469	232	190	235					10/12/1884	0.1	248	
	31	56.11	31280	71.33	-480	-242	465	4	469	227	178	223	36		cl#2-6clk			212	17#5,7#2	

↑ Storage w/des

↑ water thru gates



